

Message Text

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SUBJECT: CCMS: PILOT STUDY PROGRESS REPORT ON ENERGY
CONSERVATION

REF: USNATO 198

NATO PLEASE PASS TO DR. SPIELMAN

1. THE FOLLOWING IS THE QUARTERLY REPORT ON THE CCMS
RATIONAL USE OF ENERGY PILOT STUDY (FORMERLY ENERGY
CONSERVATION):

BEGIN REPORT.

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A. BUILDINGS PROJECTS.

1) CLIMATIC CONDITIONS. CCMS CLIMATIC CONDITIONS AND REFERENCE YEAR INITIAL STEERING GROUP MET IN COPENHAGEN, JANUARY 21-22, 1975. THE GROUP IS CHAIRED BY DENMARK. REPRESENTATIVES FROM AUSTRIA, USA, AND WEST GERMANY ATTENDED. IT WAS AGREED THAT THE COMPOSITION OF THE GROUP WAS SUFFICIENT, ALTHOUGH THERE WAS INTEREST IN HAVING BELGIUM AND FRANCE PARTICIPATE. THE GROUP AGREED ON FORMAT FOR CLIMATE DATA AND AGREED THAT EACH COUNTRY SHOULD PROCEED WITH A TEST REFERENCE YEAR. THE GROUP WILL MAINTAIN INFORMAL CONTACT, BUT WOULD NOT HAVE ANOTHER OFFICIAL MEETING UNTIL JANUARY 1976. AT THIS MEETING THE FINAL REPORT WOULD BE DISCUSSED AND BE COMPLETED IN MARCH IN ORDER FOR IT TO BE PRESENTED AT THE SPRING CCMS PLENARY AND AT THE CIB SYMPOSIUM IN VIENNA IN JANUARY 1977.

2) HEAT PUMPS. THE FRENCH CSTB HAS AGREED TO SPONSOR A MAJOR SYMPOSIUM ON HEAT PUMPS IN 1976. A US DELEGATION VISITED CSTB IN THE FALL OF 1974. A STEERING COMMITTEE OF SEVERAL COUNTRIES IS TO MEET TO DETAIL A FINAL STUDY PLAN LEADING TO A SYMPOSIUM WHICH WOULD BE HELD IN 1976.

3) MODULAR INTEGRATED UTILITY AND TOTAL ENERGY SYSTEMS. US DELEGATION MET WITH REPRESENTATIVES OF UK, NORWAY, DENMARK, NETHERLANDS, FEDERAL REPUBLIC OF GERMANY, ITALY, BELGIUM AND FRANCE. (IN ADDITION, A MEETING WAS HELD WITH REPRESENTATIVES OF THE SWEDISH GOVERNMENT.)

THE SCOPE AND OBJECTIVES OF THE MIUS/CCMS PROJECT WERE DEFINED AS FOLLOWS:

THE SCOPE OF THE PROJECT INCLUDES TOTAL ENERGY AND INTEGRATED UTILITY SYSTEMS; DISTRICT HEATING INCLUDING UTILIZATION OF WASTE HEAT FROM CENTRAL STATION POWER PLANTS AND ENGINEERING HEAT PUMP SYSTEMS; AND RECYCLING OF WASTE FOR ENERGY.

THE OBJECTIVES OF THE MIUM/CCMS PROJECT ARE TO:

(1) DEVELOP A GLOSSARY OF TERMS TO EXPEDITE THE TRANSFER
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OF INFORMATION.

(2) DEVELOP A UNIFORM METHODOLOGY FOR THE TAKING OF AND REPORTING OF DATA RELATED TO MIUM ACTIVITIES.

(3) DEVELOP A SHORT FORM REPORT SYSTEM TO HIGHLIGHT RESEARCH ACTIVITIES AND REPORTS.

THE NEAR TERM ACTIONS OF THE PROJECT SHOULD BE:

(1) DEVELOP DRAFT GLOSSARY AND TOTAL ENERGY EVALUATION DOCUMENTATION.

(2) DISTRIBUTE TO PARTICIPANTS BY FEBRUARY 28, 1975.

(3) MAKE REPORT TO CCMS SPRING PLENARY.

(4) CONDUCT MIUS/CCMS WORKING SESSION - APRIL 10-11, 1975.
(SITE TO BE DETERMINED.)

B. INDUSTRY PROJECTS.

1) UTILITY LOAD MANAGEMENT. THE CCMS WORKING GROUP ON UTILITY LOAD MANAGEMENT MET IN BRUSSELS ON NOVEMBER 12-13. REPRESENTATIVES WERE PRESENT FROM NINE COUNTRIES, UNIPEDE AND THE US ELECTRIC ENERGY ASSOCIATION. IN ADDITION THERE WERE FIVE US UTILITY COMPANIES AND ONE US EQUIPMENT MANUFACTURER REPRESENTED AT THE MEETING. SUBSTANTIAL DISCUSSIONS WERE HELD ON:

- (1) RATE STRUCTURES.
- (2) STORAGE DEVICES
- (3) CONTROL MECHANISMS
- (4) HEAT PUMPS
- (5) LOAD LEVELING AND MANAGEMENT

IT WAS DETERMINED THAT THE NEXT MEETING WILL BE HELD IN ONE YEAR (NOVEMBER 1975). IN THE INTERIM AD HOC MEETING WILL BE HELD DURING THE YEAR. A FINAL REPORT WILL BE PREPARED FOR THE SPRING 1976 CCMS PLENARY.

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2) DATA BASE. A MEETING ON THE INTERNATIONAL INDUSTRIAL DATA BASE WAS HELD IN MILAN, ITALY, ON NOVEMBER 18-19, 1974, AND WAS ATTENDED BY REPRESENTATIVES FROM US, ITALY, FEDERAL REPUBLIC OF GERMANY, UK, AND NETHERLANDS. TO ACCOMPLISH THE TASK OF BUILDING THE DATA BASE WHILE USING A UNIFORM METHODOLOGY AND COMMON STANDARD OF MEASUREMENT, IT WAS AGREED TO FOLLOW THE PATTERN ESTABLISHED IN THE SURVEYS OF THESE INDUSTRIES PRESENTLY UNDER WAY, OR ABOUT TO BE UNDERTAKEN, IN THE PILOT COUNTRY. THE SPECIFIC INFORMATION TO BE ASSEMBLED WILL BE:

(1) A CLEAR DEFINITION OF THE PRODUCTS STUDIED AND THE TIME FRAME FOR WHICH THE DATA IS VALID.

(2) A DESCRIPTION OF THE TYPICAL MANUFACTURING PROCESS

SEQUENCE.

(3) A DESCRIPTION OF THE TECHNOLOGY IN COMMON USE IN EACH PROCESSING STAGE.

(4) THE PHYSICAL QUANTITIES OF ENERGY AND MATERIALS USED FOR EACH PROCESSING STAGE, INCLUDING A BREAKDOWN OF TYPES OF FUEL USED (AVERAGE DATA AND "BEST TECHNOLOGY" DATA, IF AVAILABLE).

(5) A BRIEF REVIEW OF TRENDS IN TECHNOLOGY AND ANY OTHER DEVELOPMENTS AFFECTING ENERGY CONSUMPTION.
THE FOLLOWING SPECIFIC ACTIONS WERE TO BE RECOMMENDED BY THE REPRESENTATIVES AT THIS MEETING TO THEIR RESPECTIVE GOVERNMENTS:

(1) FOLLOWING A REVIEW OF DATA CURRENTLY AVAILABLE AND ENERGY PROGRAMS CURRENTLY IN EFFECT OR PLANNED, COUNTRIES WILL ESTABLISH A TIME SCHEDULE FOR THE ASSEMBLY OF THE DATA OUTLINED ABOVE FOR EACH OF THE FOUR INDUSTRIES.

(2) THE GROUP OF EXPERTS WILL RECONVENE FEBRUARY 25-26, 1975, IN ROME TO REPORT ON THE DETAILS OF THEIR PROGRAMS TO ASSEMBLE DATA, THEIR TIME SCHEDULES, PROGRESS TO DATE AND ANY PROBLEM AREAS ENCOUNTERED.

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(3) THE RESPONSIBILITIES FOR LEADERSHIP IN DATA ASSEMBLY FOR PARTICULAR INDUSTRIES WILL BE CONSIDERED BY EACH COUNTRY AND THEIR COMMITMENT TO SUCH LEADERSHIP WILL BE REPORTED AT THE ABOVE-MENTIONED MEETING.

3) INCENTIVES, BARRIERS AND METHODS OF INSURING TECHNOLOGY TRANSFER. THIS PROJECT WILL BE DEVELOPED USING EXAMPLES AND MATERIALS FROM THE UTILITY LOAD MANAGEMENT AND DATA BASE WORKING GROUPS. END REPORT. INGERSOLL

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